



SEQUENCE LISTING

<110> Reiter, Robert E.
Witte, Owen N.
Saffran, Douglas C.
Jakobovits, Aya

<120> PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF

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<141> 2001-05-14

<150> 09/564,329

<151> 2000-05-03

<150> 09/359,326

<151> 1999-07-20

<150> 09/318,503

<151> 1999-05-25

<150> 09/251,835

<151> 1999-02-17

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<170> PatentIn Ver. 2.0

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<213> Homo sapiens

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gctgcaggt ggagaactgc acccagctgg gggagcagtg ctggaccgcg cgcacccgcg 180
cagttggcct cctgaccgtc atcagcaaag gctgcagctt gaactgctg gatgactcac 240
aggactacta cgtgggcaag aagaacatca cgtgctgtga caccgacttg tgcaacgcca 300
gcggggccca tgccctgcag ccggtgcg ccaccttgc gctgctccct gcactcggcc 360
tgctgctctg gggaccggtc cagctatagg ctctgggggg ccccgctgca gccacactg 420
ggtgtggtgc cccaggcctt tgtgccactc ctcacagaac ctggcccagt gggagcctgt 480
cctggttctt gaggcacatc ctaacgcaag tttgaccatg tatgtttgca ccccttttcc 540
ccnaaccctg accttcccat gggccttttc caggatccn accnggcaga tcagttttag 600
tganacanat ccgcntgcag atggccctc caacnnttn tgttgntgtt tccatggccc 660
agcattttcc acccttaacc ctgtgttcag gcacttnttc ccccaggaag ccttccctgc 720
ccacccatt tatgaattga gccaggtttg gtccgtggtg tccccgcac ccagcagggg 780
acaggcaatc aggagggccc agtaaaggct gagatgaagt ggactgagta gaactggagg 840
acaagagttg acgtgagttc ctgggagttt ccagagatgg ggcctggagg cctggaggaa 900
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Pro Gly Thr Ala Leu Leu Cys Tyr Ser Cys Lys Ala Gln Val Ser Asn
      20             25             30

Glu Asp Cys Leu Gln Val Glu Asn Cys Thr Gln Leu Gly Glu Gln Cys
      35             40             45

Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys
      50             55             60

Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly
      65             70             75             80

Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly
      85             90             95

Ala His Ala Leu Gln Pro Ala Ala Ala Ile Leu Ala Leu Leu Pro Ala
      100             105             110

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Leu Gly Leu Leu Leu Trp Gly Pro Gly Gln Leu
 115 120

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 tgcagcctgg accagcacag ttgctttaca tcgcgcatcc gggccattgg actcgtgaca 180
 gttatcagta agggctgcag ctacacagtgt gaggatgact cggagaacta ctatttgggc 240
 aagaagaaca tcacgtgctg ctactctgac ctgtgcaatg tcaacggggc ccacaccctg 300
 aagccacca ccaccctggg gctgctgacc gtgctctgca gcctgttgct gtggggctcc 360
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 <211> 123
 <212> PRT
 <213> Mus musculus

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 Pro Gly Ala Ala Leu Gln Cys Tyr Ser Cys Thr Ala Gln Met Asn Asn
 20 25 30
 Arg Asp Cys Leu Asn Val Gln Asn Cys Ser Leu Asp Gln His Ser Cys
 35 40 45
 Phe Thr Ser Arg Ile Arg Ala Ile Gly Leu Val Thr Val Ile Ser Lys
 50 55 60
 Gly Cys Ser Ser Gln Cys Glu Asp Asp Ser Glu Asn Tyr Tyr Leu Gly
 65 70 75 80
 Lys Lys Asn Ile Thr Cys Cys Tyr Ser Asp Leu Cys Asn Val Asn Gly
 85 90 95
 Ala His Thr Leu Lys Pro Pro Thr Thr Leu Gly Leu Leu Thr Val Leu
 100 105 110
 Cys Ser Leu Leu Leu Trp Gly Ser Ser Arg Leu
 115 120

<210> 5
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 5

Met Lys Ile Phe Leu Pro Val Leu Leu Ala Ala Leu Leu Gly Val Glu
 1 5 10 15
 Arg Ala Ser Ser Leu Met Cys Phe Ser Cys Leu Asn Gln Lys Ser Asn
 20 25 30
 Leu Tyr Cys Leu Lys Pro Thr Ile Cys Ser Asp Gln Asp Asn Tyr Cys
 35 40 45
 Val Thr Val Ser Ala Ser Ala Gly Ile Gly Asn Leu Val Thr Phe Gly
 50 55 60
 His Ser Leu Ser Lys Thr Cys Ser Pro Ala Cys Pro Ile Pro Glu Gly
 65 70 75 80
 Val Asn Val Gly Val Ala Ser Met Gly Ile Ser Cys Cys Gln Ser Phe
 85 90 95
 Leu Cys Asn Phe Ser Ala Ala Asp Gly Gly Leu Arg Ala Ser Val Thr
 100 105 110
 Leu Leu Gly Ala Gly Leu Leu Leu Ser Leu Leu Pro Ala Leu Leu Arg
 115 120 125
 Phe Gly Pro
 130

<210> 6
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 6
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 1 5 10 15
 Pro Gly Thr Ala Leu Leu Cys Tyr Ser Cys Lys Ala Gln Val Ser Asn
 20 25 30
 Glu Asp Cys Leu Gln Val Glu Asn Cys Thr Gln Leu Gly Glu Gln Cys
 35 40 45
 Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys
 50 55 60
 Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly
 65 70 75 80
 Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly
 85 90 95
 Ala His Ala Leu Gln Pro Ala Ala Ala Ile Leu Ala Leu Leu Pro Ala
 100 105 110
 Leu Gly Leu Leu Leu Trp Gly Pro Gly Gln Leu
 115 120

<210> 7
 <211> 123
 <212> PRT
 <213> Mus musculus

<400> 7
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 1 5 10 15
 Pro Gly Ala Ala Leu Gln Cys Tyr Ser Cys Thr Ala Gln Met Asn Asn
 20 25 30
 Arg Asp Cys Leu Asn Val Gln Asn Cys Ser Leu Asp Gln His Ser Cys
 35 40 45
 Phe Thr Ser Arg Ile Arg Ala Ile Gly Leu Val Thr Val Ile Ser Lys
 50 55 60
 Gly Cys Ser Ser Gln Cys Glu Asp Asp Ser Glu Asn Tyr Tyr Leu Gly
 65 70 75 80
 Lys Lys Asn Ile Thr Cys Cys Tyr Ser Asp Leu Cys Asn Val Asn Gly
 85 90 95
 Ala His Thr Leu Lys Pro Pro Thr Thr Leu Gly Leu Leu Thr Val Leu
 100 105 110
 Cys Ser Leu Leu Leu Trp Gly Ser Ser Arg Leu
 115 120

<210> 8
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 <213> Artificial Sequence

<220>
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<210> 9
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 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 9
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<210> 10
 <211> 408

<212> DNA
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<223> Description of Artificial Sequence: MONOCLONAL
ANTIBODY 1G8

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aacattaaag actactatat acactgggtg aatcagaggc ctgaccaggg cctggagtgg 180
attggatgga ttgatcctga gaatggtgac actgaatttg tcccgaagtt ccagggcaag 240
gccactatga ctgcagacat tttctccaac acagcctacc tgcacctcag cagcctgaca 300
tctgaagaca ctgccgtcta ttactgtaaa acgggggggtt tctggggcca agggactctg 360
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<210> 11

<211> 136

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: MONOCLONAL
ANTIBODY 1G8

<400> 11

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          20             25             30

Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Tyr Tyr Ile His
          35             40             45

Trp Val Asn Gln Arg Pro Asp Gln Gly Leu Glu Trp Ile Gly Trp Ile
          50             55             60

Asp Pro Glu Asn Gly Asp Thr Glu Phe Val Pro Lys Phe Gln Gly Lys
          65             70             75             80

Ala Thr Met Thr Ala Asp Ile Phe Ser Asn Thr Ala Tyr Leu His Leu
          85             90             95

Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Lys Thr Gly
          100            105            110

Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala Ala Lys Thr
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Thr Pro Pro Ser Val Tyr Pro Leu
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<210> 12

<211> 426

<212> DNA

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ANTIBODY 4A10

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agctactgga tgcactgggt gaagcagagg cctggacaag gccttgagtg gattggaaat 180
attgaccctg gtagtggtta cactaactac gctgagaacc tcaagaccaa ggccacactg 240
actgtagaca catcctccag cacagcctac atgcagctca gcagcctgac atctgaggac 300
tctgcagtct attactgtac aagccgatct actatgatta cgacgggatt tgcttactgg 360
ggccaaggga ctctggtcac tgtctctgca gctacaacaa cagcccccac tgtctatcca 420
ctggcc                                         426
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ANTIBODY 4A10

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Pro Gly Ser Glu Leu Val Arg Pro Gly Thr Ser Val Lys Leu Ser Cys
      20             25             30

Lys Ala Ser Gly Tyr Thr Phe Ser Ser Tyr Trp Met His Trp Val Lys
      35             40             45

Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Asn Ile Asp Pro Gly
      50             55             60

Ser Gly Tyr Thr Asn Tyr Ala Glu Asn Leu Lys Thr Lys Ala Thr Leu
      65             70             75             80

Thr Val Asp Thr Ser Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu
      85             90             95

Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Thr Ser Arg Ser Thr Met
      100            105            110

Ile Thr Thr Gly Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
      115            120            125

Ser Ala Ala Thr Thr Thr Ala Pro Ser Val Tyr Pro Leu Ala
      130            135            140
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<210> 14

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<212> DNA

<213> Artificial Sequence

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ANTIBODY 2H9

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tgtgtagcct ctggatttac tttcagtaat tactggatga cttgggtccg ccagtctcca 180
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tatgaggagt ctgtgaaagg gaaattcacc atctcaagag atgattccag aagtcgtctc 300
tacctgcaaa tgaacaactt aagacctgaa gacagtggaa tttattactg tacagatggg 360
ctgggacgac ctaactgggg ccaagggact ctggtcactg tctctgcagc caaaacgaca 420
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Val Arg Ser Glu Val Arg Leu Glu Glu Ser Gly Gly Gly Trp Val Gln
          20             25             30

Pro Gly Gly Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Thr Phe
          35             40             45

Ser Asn Tyr Trp Met Thr Trp Val Arg Gln Ser Pro Glu Lys Gly Leu
          50             55             60

Glu Trp Val Ala Glu Ile Arg Leu Arg Ser Glu Asn Tyr Ala Thr His
          65             70             75             80

Tyr Ala Glu Ser Val Lys Gly Lys Phe Thr Ile Ser Arg Asp Asp Ser
          85             90             95

Arg Ser Arg Leu Tyr Leu Gln Met Asn Asn Leu Arg Pro Glu Asp Ser
          100            105            110

Gly Ile Tyr Tyr Cys Thr Asp Gly Leu Gly Arg Pro Asn Trp Gly Gln
          115            120            125

Gly Thr Leu Val Thr Val Ser Ala Ala Lys Thr Thr Pro Pro Ser Val
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Tyr Pro Leu Ala Pro Cys Val
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<210> 16
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<400> 16
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1 5 10 15

<210> 17
<211> 12
<212> PRT
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<400> 17
Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly Lys Lys
1 5 10

<210> 18
<211> 15
<212> PRT
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<400> 18
Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly Lys
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 <213> Artificial Sequence

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 <223> g or c

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 <223> g or t

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 <222> (31)
 <223> a or c

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 <222> (34)
 <223> g or c

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<210> 26
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<220>
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 <223> a or g

<220>
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 <223> c or t

<220>

<221> misc_feature

<222> (33)

<223> g or t

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39